

Box CR-2  
0886d #3294

(This section to be completed by subcontractor requesting document) 30 1996

J. Lamb / 1034A  
Requestor Document Center (is requested to provide the following document)

Date of request ~~12/18/95~~ 5/3/96 Expected receipt of document ~~5/18/96~~ 6/3/96

Document number KCR-380 Date of document 4/2/45

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 5/10/96

Date submitted to ADC 5/21/96 Release

Date submitted to HSA Coordinator 5/10/96

(This section to be completed by HSA Coordinator)

Date submitted to CICO 5/21/96

Date received from CICO 5/22/96

Date submitted to ChemRisk/Shonka and DOE 5/28/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received

Signature

#3294

From Box 2

~~RESTRICTED~~  
ATOMIC ENERGY COMMISSION

BULLETIN  
OR-65

PROPERTY AND SUPPLIES  
Radioactive Scrap

Storage Yard for Radioactive Metal Scrap

K/CR-380

FOR: All Supervisors, Oak Ridge Area.

- 1. General:** There has been established an open storage area for scrap metal which has become radioactive and which therefore cannot be disposed of through commercial channels. The area is located east of the intersection of Oak Ridge Turnpike with White Wing Bridge Road. It is fenced and posted with warning signs. This Bulletin establishes standards and procedures for storage of radioactive scrap metal.
- 2. Acceptable Materials:** It is intended primarily that materials and equipment accepted for storage at the yard will be limited to radioactive metal scrap, salvage, obsolete and special items having a potential use only for the recovery of the basic metal content. Radioactive waste materials such as rags and papers will not be accepted, nor will any other radioactive materials which are subject to relatively rapid deterioration or which will require special care and treatment in providing for their storage. Items classified for security purposes will also not be accepted.
- 3. Radioactivity Limits and Restrictions:** The storage yard is intended for open storage of salvage and scrap having sufficient radioactivity to prevent it from being offered for sale through commercial channels but not sufficiently contaminated to justify special care and treatment in providing for its storage. Items will be accepted at the storage yard which fall within the lower and upper limits as indicated in the attached Table of Radiation Levels. The radiation instruments (Victoreen 356, 263 and 263A) and equivalent readings for radiation levels are specified in the interest of standardization. It is imperative that the maximum distance (distance from object being measured to probe) indicated be adhered to rigidly in taking all readings. The upper limit in the cab of truck conforms to standard safety requirements. The upper limits over the center of the truck load and around the scrap pile in the yard will restrict the size of the truck load and yard pile. No loads above this limit will be accepted and a new pile in the yard will be started upon reaching this limit. The upper limit indicated at the boundary fence of the yard is a final check for personnel safety.

Issuance date: April 2, 1948

Page 1

~~RESTRICTED~~

OCCUPATIONAL SAFETY SECTION  
SAFETY BRANCH  
DIVN. OF ENG. & PRODUCTION  
OAK RIDGE

ORS

UNCLASSIFIED

Class (action changed to (level and category)

Signature (first reviewer) Date

1989/5

9/20/95

Date

Signature (second reviewer) Date

This document has been approved for release to the public by:

5/22/96  
Date

Technical Information Officer  
Oak Ridge K-25 Site

~~RESTRICTED~~

PROPERTY AND SUPPLIES  
Radioactive Scrap

BULLETIN  
CR-65

- a. Pipe, closed vessels and equipment whose interiors cannot be checked accurately but which are known to have been exposed to radioactivity will be accepted at the storage yard and will not be released to commercial channels.
- b. The attached Table of Radiation Levels will be reissued at least every 12 months after date of issue and upon investigation of current acceptance of radiation levels and instrument data.
4. Procedure: The Property Disposal Branch, Division of Service and Supply, will have custody of the storage yard for radioactive salvage and scrap. It is not contemplated that the volume of operations will justify maintenance of full time employees at the yard. Therefore, shippers will notify the Property Disposal Branch (Phone 4155 or 4-9172) the day preceding any contemplated delivery, so that acceptance of the scrap may be accomplished. No facilities or labor will be provided by the Branch for unloading material. Accordingly, shippers will provide all transportation, labor, containers or other special facilities for transporting and unloading material. Shippers will also provide for segregation of material by type in accumulation and unloading operations to the greatest practicable extent so that the material may be stored in separate piles for aluminum, copper, monel, steel, etc. Shipments and documents will be in accordance with current standard procedures for transfer of salvage and scrap. Estimated weights of segregated materials will be indicated on transfer documents by the shipper.
5. Protection of Personnel: Shippers providing personnel having access to the storage yard are responsible for providing for protection and monitoring of their employees in accordance with current safety regulations.
6. Allocation of Responsibility: The Division of Service and Supply is responsible for operation of the storage yard for radioactive scrap, checking to see that materials meet the standards of acceptability, coordinating the development of new or revised standards of acceptability for storage, and issuing supplementary instructions as necessary for operations of the yard. All divisions are responsible for sending materials to the yard in conformance with the standards and procedures set forth in this Bulletin and, where appropriate technical staff is available, assisting the Division of Service and Supply in developing new or revised standards of acceptability for storage.

J. C. Franklin  
Manager

~~RESTRICTED~~

R E S T R I C T E D

TABLE OF SCRAP RADIATION LEVELS AND  
EQUIVALENT INSTRUMENT DATA

<u>Type of Radiation</u>	<u>Radiation Level</u>	<u>Normal Background Reading</u>	<u>Range Scale</u>	<u>Maximum Distance</u>	<u>Meter Reading</u>	<u>Instrument</u>
<u>(LOWER LIMITS OF SCRAP ITEMS)</u>						
Alpha	3 d/min./ sq.cm.	Set to Zero	XI	1/2 in.	1 div.	Victoreen 356 (Zeuto)
Beta Gamma	0.02 mr/hr.	1 div.	3	1 in.	2 div.	Victoreen 263
<u>or</u>						
Beta Gamma	0.02 mr/hr.	1 div.	XI	1 in.	2 div.	Victoreen 263A
<u>(UPPER LIMITS OF SCRAP ITEMS)</u>						
Alpha	No limit					
Beta Gamma	12.5 mr/hr	Negligible	1	6 in.	12.5 div.	Victoreen 263
<u>(UPPER LIMITS IN CAB OF TRUCK)</u> (Max. Allowable Exposure of 100 mr/24 hr.)						
Beta Gamma	12.5 mr/hr.	Negligible	1	In Cab	12.5 div.	Victoreen 263
<u>(UPPER LIMITS OVER CENTER OF TRUCK LOAD AND AROUND SCRAP PILE IN YARD)</u>						
Beta Gamma	12.5 mr/hr	Negligible	1	3 ft.	12.5 div.	Victoreen 263
<u>(UPPER LIMITS AT BOUNDARY FENCE)</u>						
Beta Gamma	12.5 mr/hr	Negligible	1	At Fence	12.5 div.	Victoreen 263

Void after April 2, 1949.

EXHIBIT I

R E S T R I C T E D